



Antifungal Chromans Inhibiting the Mitochondrial Respiratory Chain of Pea Seeds and New Xanthones from *Calophyllum caledonicum*

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Résumé en anglais	Two new xanthones, caledonixanthone M 1 and caloxanthone L 2 , and one new acid, caledonic acid 6 were isolated from the hexane-soluble extract of the stem bark of <i>Calophyllum caledonicum</i> . In the course of this phytochemical study, seven other known compounds - calothwaitesixanthone, calozeyloxanthone, allanxanthone, isoapetalic acid 3 , calolongic acid 4 , apetalic acid 5 and isocalolongic acid 7 - were isolated. Their antifungal activity against the growth of the human pathogenic fungus <i>Aspergillus fumigatus</i> was then investigated. The results indicated that the crude extract, calolongic acid 4 and isocalolongic acid 7 exhibited strong inhibitory effects with MIC ₈₀ values of 8, 4, 2 pg/mL, respectively. Besides, calolongic acid 4 , its lactone derivative 4a and isocalolongic acid 7 markedly reduced the respiration of pea seed mitochondria.
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